

FILE ID**SATSSS61

N 9

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V
O

(1)	55	DECLARATIONS
(1)	119	CONDITION TABLES
(1)	167	TM SETUP, TM CLEANUP
(1)	260	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	353	FORM CONDS
(1)	446	VERIFY
(1)	623	VFY CLEANUP
(2)	685	WATCH_AST

0000 1 .TITLE SATSSS61 SATS SYST SERV TESTS \$SCH/CANWAK (SUCC S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 :++
0000 30 :FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)
0000 31
0000 32 :ABSTRACT:
0000 33
0000 34 : THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000 35 : WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS61 TO TEST SUCCESSFUL
0000 36 : OPERATION OF THE \$SCH/CANWAK SYSTEM SERVICE. THE SERVICE IS INVOKED
0000 37 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000 38 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT
0000 39 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000 40 : CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000 41 : AND EXPECTED FUNCTIONALITY PERFORMED.
0000 42
0000 43 :ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 44 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 45
0000 46 :AUTHOR: THOMAS L. CAFARELLA. CREATION DATE: APR, 1977
0000 47
0000 48 :MODIFIED BY:
0000 49
0000 50 :V03-001 LDJ0001 Larry D. Jones. 23-Jun-1983
0000 51 :Removed the quota list to force the use of the
0000 52 :default sysboot quotas.
0000 53 :--

```
0000 55 .SBTTL DECLARATIONS
0000 56 :
0000 57 : INCLUDE FILES:
0000 58 :
0000 59 $PRVDEF : PRIVILEGE BIT DEFINITIONS
0000 60 $PHDDEF : PROCESS HEADER OFFSETS
0000 61 $PQLDEF : PROCESS QUOTA CODES
0000 62 $PCBDEF : PCB LABELS
0000 63 $DIBDEF : DEVICE INFO BLOCK OFFSETS
0000 64 :
0000 65 : MACROS:
0000 66 :
0000 67 :
0000 68 : EQUATED SYMBOLS:
0000 69 :
00989680 0000 70 ONE_SEC = 10*1000*1000 : 10 MILLION 100-NANOSECOND UNITS (OR 1 SEC)
0000 71 :
0000 72 : OWN STORAGE:
0000 73 :
```

31 36 53 53 0000008C'010E0000'

00000000	75	.PSECT	RODATA, RD, NOWRT, NOEXE, LONG	
0000	76	TEST_MOD_NAME::	STRING C,<SATSSS61>	: TEST MODULE NAME
0009	77	TEST_MOD_NAME_D::	STRING I,<SATSSS61>	: TEST MODULE NAME DESCRIPTOR
0019	78	MSG1_INP_CTL::	STRING I,< SSSCW!4ZW: CONDITIONS:>	
0039	79			: FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
0039	80	MSG3_ERR_CTL::	STRING I,< *SSSCW!4ZW: !AS>	
0051	81			: FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
0051	82	SUBJPRN:	STRING I,<SATSSS61 CRE>	: PROCESS & MBX NAME FOR CREATED PROCESS
0065	83	IMAGNAM:	STRING I,<SYSTSTSRES:SAT\$UT07.EXE>	: IMAGE NAME FOR CREATED PROC
0084	84	CLUSTER:	.ASCID /\$S61/	: STRING DESCRIPTOR FOR CLUSTER
0090	85			: .. FOR CREATED PROCESS COMMUNICATION
0090	86	:QUOTALIST:	\$QUOTA CPULM,0	
0090	87	:	\$QUOTA BYTLM,512	: INFINITE CPU
0090	88	:	\$QUOTA FILLM,2	: BYTE LIMIT FOR BUFFERED I/O
0090	89	:	\$QUOTA PGFLQUOTA,10	: OPEN FILE COUNT LIMIT
0090	90	:	\$QUOTA PRCLM,2	: PAGING FILE QUOTA
0090	91	:	\$QUOTA TQELM,3	: SUBPROCESS QUOTA
0090	92	:	\$QUOTA LISTEND	: TIMER QUEUE ENTR
FFFFFFFFFF FF676980	0090	93	DELTA_1SEC:	.LONG -ONE SEC,-1 : A
FFFFFFFFFF FECE0D300	0098	94	DELTA_2SEC:	.LONG -2*ONE SEC,-1 : DEFINES END OF
FFFFFFFFFF FE363C80	00A0	95	DELTA_3SEC:	.LONG -3*ONE SEC,-1 : DLLTA TIME VALUE FOR 1 SECOND
FFFFFFFFFF FA0A1F00	00A8	96	DELTA_10SEC:	.LONG -10*ONE SEC,-1 : DELTA TIME VALUE FOR 2 SECONDS
FFFFFFFFFF FFD9DA60	00B0	97	DELTA_QSEC:	.LONG -<ONE SEC/4>,-1 : DELTA TIME VALUE FOR 3 SECONDS
00000000 01C9C380	00B8	98	POS_3SEC:	.LONG 3*ONE SEC,0 : DELTA TIME VALUE FOR 10 SECONDS
00C0	99	TIME_PAST:	STRING I,<25-DEC-1973 21:46:00.00>	: DELTA TIME VALUE FOR A QUARTER-SECOND
				: 3 SECONDS (POSITIVE VALUE)
				: A TIME IN THE PAST

00000000	101	.PSECT	RWDATA,RD,WRT,NOEXE,LONG	
00000008	0000	102	PRIVMASK:	.BLKQ 1 : ADDR OF PRIVILEGE MASK (IN PHD)
0000000C	0008	103	MBXCHAN:	.BLKL 1 : CHAN. NO. FOR MAILBOX FOR CREATED PROCESS
	000C	104	MBXCHANINFO:	: CHANNEL INFO RETURNED BY GETCHN
00000074	000C	105		.LONG DIBSK_LENGTH
00000014	0010	106		.ADDRESS +4
00000088	0014	107		.BLKB DIBSK_LENGTH
0000008C	0088	108	MBXUNIT:	.BLKL 1 : SAVE AREA FOR MAILBOX UNIT NUMBER
	008C	109	MBXBUFF:	STRING 0,120 : MAILBOX BUFFER FOR CREATED PROCESS
00000110	010C	110	DEST PIDADR:	.BLKL 1 : DESTINATION PID ADDR, WRITTEN BY S.S.
00000114	0110	111	ZEROPID:	.BLKL 1 : PID OF ZEROES
00000000	0114	112	SELFPID:	.LONG 0 : PID OF THIS PROCESS
0000011C	0118	113	CREPID:	.BLKL 1 : PID OF CREATED PROCESS
00000120	011C	114	SUBJPID:	.BLKL 1 : PID OF SUBJECT PROCESS (SELF OR OTHER)
00000128	0120	115	ABS_3SEC:	.BLKQ 1 : WILL HOLD ABS TIME VALUE FOR NOW + 3 SECS
00000130	0128	116	ABS_PAST:	.BLKQ 1 : WILL HOLD ABS TIME VALUE FOR TIME IN PAST
00000131	0130	117	LONG_WAIT:	.BLKB 1 : LONG WAIT INDICATOR; 0=NO LONG WAIT

0131 119 .SBTTL CONDITION TABLES
 0131 120 :
 0131 121 : ***** CONDITION TABLES FOR SCH/CANWAK SYSTEM SERVICE *****
 0131 122 :
 0131 123 : COND 1,NOTARG,<PID ADDRESS>,-
 0131 124 <NOT SPECIFIED>,-
 0131 125 <SPECIFIED, NON-ZERO>,-
 0131 126 <SPECIFIED, ZERO>,-
 0131 127
 00000000' 017C 128 .ADDRESS 0
 0000011C' 0180 129 .ADDRESS SUBJPID
 00000110' 0184 130 .ADDRESS ZEROPID
 0188 131 :
 0188 132 : COND 2,NOTARG,<PROCESS NAME ADDRESS>,-
 0188 133 <SPECIFIED>,-
 0188 134 <NOT SPECIFIED>,-
 0188 135
 00000051' 01BE 136 .ADDRESS SUBJPRN
 00000000' 01C2 137 .ADDRESS 0
 01C6 138 :
 01C6 139 : COND 3,NOTARG,<PROCESS TYPE>,-
 01C6 140 <SELF>,-
 01C6 141 <SUBPROCESS>,-
 01C6 142 <DETACHED, DIFFERENT GROUP>,-
 01C6 143 <DETACHED, SAME GROUP, SAME MEMBER>,-
 01C6 144 <DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
 01C6 145
 FFFFFFFF 025B 146 .LONG ^XXXXXXXXX : PSEUDO-UIC
 00000000 025F 147 .LONG 0 : PSEUDO-UIC
 00000267 0263 148 .BLKL 1 : UIC
 00000268 0267 149 .BLKL 1 : UIC
 0000026F 026B 150 .BLKL 1 : UIC
 026F 151 :
 026F 152 : COND 4,NOTARG,<ORDERING OF CANCEL/WAKE/REPEAT>,-
 026F 153 <CANCEL, WAKE, REPEAT>,-
 026F 154 <WAKE, CANCEL, REPEAT>,-
 026F 155 <WAKE, REPEAT, CANCEL>,-
 026F 156 <WAKE, CANCEL>,-
 026F 157
 00000090'00000120' 02E8 158 .ADDRESS ABS_3SEC,DELTA_1SEC : DAYTIM, REPTIM ARG ADDRESSES
 000000A0'00000090' 02F3 159 .ADDRESS DELTA_1SEC,DELTA_3SEC : DAYTIM, REPTIM ARG ADDRESSES
 00000000'00000000' 02FB 160 .ADDRESS ONES,ONES : DAYTIM, REPTIM ARG ADDRESSES
 00000000'00000090' 0303 161 .ADDRESS DELTA_1SEC,0 : DAYTIM, REPTIM ARG ADDRESSES
 0308 162 :
 0308 163 : COND 5,NULL
 030C 164 :
 00000000 165 .PSECT SATSSS61.RD,WRT,EXE

0000 167 .SBTTL TM_SETUP, TM_CLEANUP
 0000 168 ++
 0000 169 : FUNCTIONAL DESCRIPTION:
 0000 170 :
 0000 171 : TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM
 0000 172 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
 0000 173 : TEST MODULE EXECUTION.
 0000 174 :
 0000 175 : CALLING SEQUENCE:
 0000 176 :
 0000 177 BSBW TM_SETUP BSBW TM_CLEANUP
 0000 178 :
 0000 179 : INPUT PARAMETERS:
 0000 180 :
 0000 181 : NONE
 0000 182 :
 0000 183 : IMPLICIT INPUTS:
 0000 184 :
 0000 185 : NONE
 0000 186 :
 0000 187 : OUTPUT PARAMETERS:
 0000 188 :
 0000 189 : NONE
 0000 190 :
 0000 191 : IMPLICIT OUTPUTS:
 0000 192 :
 0000 193 : TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
 0000 194 : ALL PRIVILEGES ACQUIRED.
 0000 195 :
 0000 196 : COMPLETION CODES:
 0000 197 :
 0000 198 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
 0000 199 :
 0000 200 : SIDE EFFECTS:
 0000 201 :
 0000 202 : SS CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
 0000 203 : (VIA RSB) IF ERROR ENCOUNTERED.
 0000 204 :
 0000 205 :--
 0000 206 :
 0000 207 :
 0000 208 :
 0000 209 TM_SETUP:::
 52 D4 0000 210 CLRL R2 : INITIALIZE
 53 D4 0002 211 CLRL R3 : .. CONDITION
 54 D4 0004 212 CLRL R4 : TABLE
 55 D4 0006 213 CLRL R5 : INDEX
 56 D4 0008 214 CLRL R6 : REGISTERS
 00000000'EF 00000000'EF FFF3' 30 000A 215 BSBW MOD_MSG PRINT : PRINT TEST MODULE BEGIN MSG
 03 00 00000000'8F DE 000D 216 MOVAL TEST_MOD_SUCC,TMD_ADDR : ASSUME END MSG WILL SHOW SUCCESS
 00000000'EF F0 0018 217 INSV #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
 00000000'EF 0020 0025 218 MODE TO,\$\$_KRNLL : KERNEL MODE TO ACCESS PHD
 59 00000000'9F D0 0048 219 MOVL \$CTL\$GL_PHD,R9 : GET PROCESS HEADER ADDRESS
 00000000'EF 69 DE 004F 220 MOVAL PHDSQ_PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS
 0056 0057 221 MODE FROM,\$\$; BACK TO USER MODE
 0057 222 PRIV ADD,ALL ; GET ALL PRIVILEGES

		0077	223	\$SETPRN_S TEST_MOD_NAME_D	: SET PROCESS NAME
		0084	224	SS_CHECK NORMAL	: CHECK STATUS CODE RETURNED FROM SETPRN
		00B2	225	SWAKE_S SELFID	: GET MY PID
		00C1	226	SS_CHECK NORMAL	: CHECK FOR NORMAL RETURN
		00EF	227	\$HIBER_S	: UNDO ABOVE WAKE
		00F6	228	SS_CHECK NORMAL	: CHECK FOR NORMAL RETURN
		0124	229	: THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE	
		0124	230		
		0124	231	:	
59	00000000'9F	DD	0147	232 MODE TO 20\$_KRLN	: KERNEL MODE TO ACCESS PCB
59	00BC C9	DD	014E	233 MOVL @\$CHSGL(CURPCB_R9)	: GET CURRENT PCB ADDRESS
			0153	234 MOVL PCB\$L_UIC(R9),R9	: PICK UP UIC FROM PCB
			0154	235 MODE FROM,20\$: ... AND GET BACK TO USER MODE
			0154	236	
			0154	237 R9 NOW CONTAINS "MY" UIC	
			0154	238	
59	00010000 8F	C1	0154	239 MOVZBL #2,R10	: GET COND3 TABLE INDEX NUMBER INTO A REG
	0000025B'EF4A		0157	240 ADDL3 #^X10000,R9,COND3_E[R10]	; PUT DIFF GROUP UIC INTO 3RD TABLE ELT
0000025B'EF4A	5A	D6	0164	241 INCL R10	: POINT TO 4TH COND3 TABLE ELEMENT
	59	DD	0166	242 MOVL R9,COND3_E[R10]	: PUT MY UIC INTO TABLE
0000025B'EF4A	5A	D6	016E	243 INCL R10	: POINT TO 5TH COND3 TABLE ELEMENT
	59	01	0170	244 ADDL3 #1,R9,COND3_E[R10]	: PUT DIFF MEMBER UIC INTO THE TABLE
			0179	245 \$CREMBX_S CHAN=MBXCHAN, LOGNAM=SUBJPRN, -	; GET MAILBOX FOR PROCESS
			0179	246 MAXMSG=#120, PROMSK=#0, BUFQUO=#240	
			019E	247 SS_CHECK NORMAL	: CHECK NORMAL COMPLETION
			01CC	248 \$GETCHN_S CHAN=MBXCHAN, -	: GET CHAN INFO (UNIT NUMBER)
			01CC	249 PRIBUF=MBXCHANINFO	
			01E6	250 SS_CHECK NORMAL	: CHECK NORMAL COMPLETION
00000088'EF	00000020'EF	3C	0214	251 MOVZWL MBXCHANINFO+8+DIBSW_UNIT	: SAVE MAILBOX UNIT NUMBER
			021F	252 \$BINTIM_S TIMBUF=TIME_PAST, -	; SET UP A PAST TIME IN ABSOLUTE FORMAT
			021F	253 TIMADR=ABS_PAST	
		05	0232	254 RSB	: RETURN TO MAIN ROUTINE
			0233	255 TM_CLEANUP::	
FDBC'	30	0241	256 \$DELMBX_S MBXCHAN	: DELETE TERMINATION MAILBOX	
		05	0244	257 BSBW MOD_MSG_PRINT	: PRINT TEST MODULE END MSG
			258	RSB	: RETURN TO MAIN ROUTINE

0245 260 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
0245 261 ++
0245 262 FUNCTIONAL DESCRIPTION:
0245 263
0245 264 CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
0245 265 BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
0245 266 CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
0245 267 ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
0245 268 CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED
0245 269 UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES,
0245 270 ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
0245 271 OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
0245 272 VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
0245 273 (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
0245 274
0245 275 CALLING SEQUENCE:
0245 276
0245 277 BSBW CONDX BSBW CONDX_CLEANUP
0245 278 WHERE X = 1,2,3,4,5
0245 279
0245 280 INPUT PARAMETERS:
0245 281
0245 282 CONFLICT = 0
0245 283
0245 284 IMPLICIT INPUTS:
0245 285
0245 286 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0245 287 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0245 288
0245 289 OUTPUT PARAMETERS:
0245 290
0245 291 CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
0245 292
0245 293 IMPLICIT OUTPUTS:
0245 294
0245 295 R2,3,4,5,6 PRESERVED
0245 296
0245 297 COMPLETION CODES:
0245 298
0245 299 NONE
0245 300
0245 301 SIDE EFFECTS:
0245 302
0245 303 NONE
0245 304
0245 305 --
0245 306
0245 307
0245 308
0245 309 COND1:::
05 0245 310 RSB : RETURN TO MAIN ROUTINE
0246 311 COND1_CLEANUP:::
05 0246 312 RSB : RETURN TO MAIN ROUTINE
0247 313 COND2:::
05 0247 314 RSB : RETURN TO MAIN ROUTINE
0248 315 COND2_CLEANUP:::
05 0248 316 RSB : RETURN TO MAIN ROUTINE

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K 10
SATS SYST SERV TESTS \$SCH/CANWAK (SUCC 16-SEP-1984 00:59:38 VAX/VMS Macro V04-00 Page 9
CONDITION SUBROUTINES - SETUP AND CLEANUP 5-SEP-1984 04:32:50 [UETPSY.SRC]SATSSS61.MAR:1 (1)

2

				0249	317	COND3::		
0000017C'EF42	0000011C'8F	D1	0249	318	CMPL	R4 #2	:	DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
	19	13	024C	319	BEQL	20\$:	YES -- THIS IS CONFLICT BECAUSE OF
000001BE'EF43	10	D5	024E	320	CMPL	#SUBJPID,COND1_E[R2]	:	USE OF COMMON CLUSTERS
		12	025A	321	BEQLU	10\$:	NON-ZERO PID SPECIFIED ?
			025C	322	TSTL	COND2_E[R3]	:	YES -- PROCESS IS 'OTHER'
			0263	323	BNEQ	10\$:	IS PROCESS NAME SPECIFIED ?
			0265	324			:	YES -- SUBJECT PROCESS IS 'OTHER'
			0265	325	5\$:			
			0265	326				
0000025B'EF44	00000000'EF	D1	0265	327	:	PROCESS IS "SELF"		
	18	13	0271	328	:			
	OE	11	0273	329	CMPL	ONES,COND3_E[R4]	:	DOES CONDITION 3 SPECIFY "SELF" ?
			0275	330	BEQLU	COND3X	:	YES -- THEN ALL 3 CONDIT'NS ARE CONSISTENT
			0275	331	BRB	20\$:	NO -- INDICATE CONFLICT & GET OUT
			0275	332	10\$:			
			0275	333				
0000025B'EF44	00000000'EF	D1	0275	334	:	PROCESS IS 'OTHER'		
	OB	12	0281	335	:			
			0283	336	CMPL	ONES,COND3_E[R4]	:	DOES CONDITION 3 SPECIFY "SELF" ?
00000000'EF	00000000'EF	90	0283	337	BNEQU	COND3X	:	NO -- THEN ALL 3 CONDITIONS ARE CONSISTENT
			028E	338	20\$:			
			028E	339	MOV B	ONES,CONFLICT	:	YES -- INDICATE CONFLICT
			028F	340	COND3X:			
			028F	341	RSB		:	RETURN TO MAIN ROUTINE
			0290	342	COND3_CLEANUP::		:	RETURN TO MAIN ROUTINE
			0290	343	RSB		:	RETURN TO MAIN ROUTINE
			0291	344	COND4::		:	RETURN TO MAIN ROUTINE
			0291	345	RSB		:	RETURN TO MAIN ROUTINE
			0292	346	COND4_CLEANUP::		:	RETURN TO MAIN ROUTINE
			0292	347	RSB		:	RETURN TO MAIN ROUTINE
			0293	348	COND5::		:	RETURN TO MAIN ROUTINE
			0293	349	RSB		:	RETURN TO MAIN ROUTINE
			0293	350	COND5_CLEANUP::		:	RETURN TO MAIN ROUTINE
			0293	351	RSB		:	RETURN TO MAIN ROUTINE

0294 353 .SBTTL FORM_CONDS
 0294 354 ++
 0294 355 FUNCTIONAL DESCRIPTION:
 0294 356
 0294 357 FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT
 0294 358 THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
 0294 359
 0294 360 CALLING SEQUENCE:
 0294 361
 0294 362 BSBW FORM_CONDS
 0294 363
 0294 364 INPUT PARAMETERS:
 0294 365
 0294 366 NONE
 0294 367
 0294 368 IMPLICIT INPUTS:
 0294 369
 0294 370 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
 0294 371 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
 0294 372 FOR X = 1,2,3,4,5 :
 0294 373 CONDX_T - TITLE TEXT FOR CONDX TABLE
 0294 374 CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
 0294 375 CONDX_C - CONTEXT OF THE CONDX TABLE
 0294 376 CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
 0294 377
 0294 378 OUTPUT PARAMETERS:
 0294 379
 0294 380 NONE
 0294 381
 0294 382 IMPLICIT OUTPUTS:
 0294 383
 0294 384 NONE
 0294 385
 0294 386 COMPLETION CODES:
 0294 387
 0294 388 NONE
 0294 389
 0294 390 SIDE EFFECTS:
 0294 391
 0294 392 NONE
 0294 393
 0294 394 --
 0294 395
 0294 396
 0294 397
 0294 398 FORM_CONDS:::
 0294 399 \$FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
 0283 400 : FORMAT CONDITIONS HEADER MSG
 14 FD4A' 30 02B3 401 BSBW OUTPUT_MSG :
 00 91 02B6 402 CMPB #COND1_C,#NULL : AND PRINT IT
 03 12 02B9 403 BNEQU 10\$: IS CONDITION 1 NULL ?
 00BF 31 02BB 404 BRW FORM_CONDSX : NO -- CONTINUE
 02BE 405 10\$: MOVAL COND1_T,MSG_A : YES -- SUBROUTINE IS FINISHED
 DE 02BE 406 MOVL COND1_TAB[R2],MSG_B : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
 00000000'EF 00000131'EF 00 02C9 407 MOVB #COND1_C,MSG_TXT : SAVE ADDR OF COND 1 Curr TEXT ELT FOR FAO
 00000000'EF 0000013E'EF42 00 02D5 408 MOV_VAL COND1_C,COND1_E[R2],MSG_DATA1 : SAVE CONDITION 1 CONTEXT FOR FAO
 02DC 409 : GIVE COND 1 DATA VALUE TO FAO

14 FD4A'	30	02B3	401	BSBW	OUTPUT_MSG	: FORMAT CONDITIONS HEADER MSG	
00	91	02B6	402	CMPB	#COND1_C,#NULL	: AND PRINT IT	
03	12	02B9	403	BNEQU	10\$: IS CONDITION 1 NULL ?	
00BF	31	02BB	404	BRW	FORM_CONDSX	: NO -- CONTINUE	
00000000'EF	00000131'EF	DE	02BE	406	MOVAL	COND1_T,MSG_A	: YES -- SUBROUTINE IS FINISHED
00000000'EF	0000013E'EF42	00	02C9	407	MOVL	COND1_TAB[R2],MSG_B	: SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
00000000'EF	00	90	02D5	408	MOVB	#COND1_C,MSG_TXT	: SAVE ADDR OF COND 1 Curr TEXT ELT FOR FAO
			02DC	409	MOV_VAL	COND1_C,COND1_E[R2],MSG_DATA1	: SAVE CONDITION 1 CONTEXT FOR FAO
							: GIVE COND 1 DATA VALUE TO FAO

SATSSS61
V04-000

SATS SYST SERV TESTS
FORM_COND\$

M 10

\$SCH/CANWAK (SUCC 16-SEP-1984 00:59:38 VAX/VMS Macro V04-00
5-SEP-1984 04:32:50 [UETPSY.SRC]SATSSS61.MAR;1

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SA
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14 FD21' 30 02DC 410 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 1 MSG
00 91 02DF 411 CMPB #COND2_C,#NULL : IS CONDITION 2 NULL ?
03 12 02E2 412 BNEQU 20\$ NO -- CONTINUE
0096 31 02E4 413 BRW FORM_COND\$X YES -- SUBROUTINE IS FINISHED
00000000'EF 00000188'EF DE 02E7 414 20\$: MOVAL COND2_T,MSG_A : SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
00000000'EF 0000019E'EF43 DO 02F2 415 MOVL COND2_T,AB[R3],MSG_B : SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
00000000'EF 00 90 02FE 416 MOVB #COND2_C,MSG_CTXT : SAVE CONDITION 2 CONTEXT FOR FAO
0305 417 MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 : GIVE COND 2 DATA VALUE TO FAO
14 FCF8' 30 0305 418 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 2 MSG
00 91 0308 419 CMPB #COND3_C,#NULL : IS CONDITION 3 NULL ?
03 12 030B 420 BNEQU 30\$ NO -- CONTINUE
006D 31 030D 421 BRW FORM_COND\$X YES -- SUBROUTINE IS FINISHED
00000000'EF 000001C6'EF DE 0310 422 30\$: MOVAL COND3_T,MSG_A : SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
00000000'EF 000001D4'EF44 DO 031B 423 MOVL COND3_T,AB[R4],MSG_B : SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
00000000'EF 00 90 0327 424 MOVB #COND3_C,MSG_CTXT : SAVE CONDITION 3 CONTEXT FOR FAO
032E 425 MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 : GIVE COND 3 DATA VALUE TO FAO
14 FCCF' 30 032E 426 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 3 MSG
00 91 0331 427 CMPB #COND4_C,#NULL : IS CONDITION 4 NULL ?
47 13 0334 428 BEQLU FORM_COND\$X YES -- SUBROUTINE IS FINISHED
00000000'EF 0000026F'EF DE 0336 429 MOVAL COND4_T,MSG_A : SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
00000000'FF 0000028F'EF45 DO 0341 430 MOVL COND4_T,AB[R5],MSG_B : SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
00000000'EF 00 90 034D 431 MOVB #COND4_C,MSG_CTXT : SAVE CONDITION 4 CONTEXT FOR FAO
0354 432 MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 : GIVE COND 4 DATA VALUE TO FAO
14 FCA9' 30 0354 433 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 4 MSG
14 91 0357 434 CMPB #COND5_C,#NULL : IS CONDITION 5 NULL ?
21 13 035A 435 BEQLU FORM_COND\$X YES -- SUBROUTINE IS FINISHED
00000000'EF 0000030B'EF DE 035C 436 MOVAL COND5_T,MSG_A : SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
00000000'EF 0000030B'EF46 DO 0367 437 MOVL COND5_T,AB[R6],MSG_B : SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
00000000'EF 14 90 0373 438 MOVB #COND5_C,MSG_CTXT : SAVE CONDITION 5 CONTEXT FOR FAO
037A 439 MOV_VAL COND5_C,COND5_E[R6],MSG_DATA1 : GIVE COND 5 DATA VALUE TO FAO
FC83' 30 037A 440 BSBW WRITE_MSG2 : FORMAT AND WRITE CONDITION 5 MSG
037D 441 443 FORM_COND\$X:
05 037D 444 RSB : RETURN TO CALLER

037E 446 .SBTTL VERIFY
037E 447 ++
037E 448 FUNCTIONAL DESCRIPTION:
037E 449
037E 450 VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
037E 451 TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
037E 452 COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
037E 453 SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
037E 454 (SSCH/CANWAK). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
037E 455 BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
037E 456 AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
037E 457 COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
037E 458 ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
037E 459 THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO.
037E 460 PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
037E 461 WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED.
037E 462 AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
037E 463
037E 464 CALLING SEQUENCE:
037E 465
037E 466 BSBW VERIFY
037E 467
037E 468 INPUT PARAMETERS:
037E 469
037E 470 NONE
037E 471
037E 472 IMPLICIT INPUTS:
037E 473
037E 474 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
037E 475 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
037E 476 FOR X = 1,2,3,4,5 :
037E 477 CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
037E 478 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
037E 479 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
037E 480 FOR CONDX_E.
037E 481
037E 482 OUTPUT PARAMETERS:
037E 483
037E 484 NONE
037E 485
037E 486 IMPLICIT OUTPUTS:
037E 487
037E 488 VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
037E 489 IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
037E 490 ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
037E 491 AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
037E 492 ERRORS.
037E 493
037E 494 COMPLETION CODES:
037E 495
037E 496 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
037E 497
037E 498 SIDE EFFECTS:
037E 499
037E 500 SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
037E 501 (VIA RSB) IF ERROR ENCOUNTERED.
037E 502

037E 503 ;--
 037E 504
 037E 505
 037E 506
 037E 507 VERIFY:
 00000000'EF 95 037E 508 TSTB CFLAG : SHOULD CONDITIONS BE PRINTED ?
 03 13 0384 509 BEQL 5\$: NO -- CONTINUE
 FF0B 30 0386 510 BSBW FORM_CONDS : YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
 0000011C'EF 00000114'EF D0 0389 512 MOVL SELFPID,SUBJPID : ASSUME THE SUBJECT PID IS SELF
 00000110'EF D4 0394 513 CLRL ZEROPID : CLEAR ZERO PID
 00000130'EF 94 039A 514 CLRB LONG_WAIT : INITIALIZE LONG_WAIT INDICATOR
 0000025B'EF44 00000000'EF D1 03A0 515 CMPL ONES,COND3_E[R4] : IS PROCESS FOR THIS TEST CASE SELF ?
 03 12 03AC 516 BNEQU 7\$: NO -- CONTINUE
 0070 31 03AE 517 BRW 10\$: YES -- DON'T CREATE A PROCESS
 03B1 518 7\$: \$CREPRC_S PIDADR=CREPID, PRCNAM=SUBJPRN, -
 03B1 519 UIC=COND3_E[R4], IMAGE=IMAGNAM, -
 03B1 520 MBXUNT=MBXUNIT:, QUOTA=QUOTALIST : CREATE THE SUBJECT PROCESS
 03E8 521 : AND MAKE SURE IT CREATED OK
 0000011C'EF 00000118'EF D0 03E8 522 SS_CHECK NORMAL : MAKE THE SUBJCT PID = THE ONE JUST CREATED
 0000010C'EF 0000017C'EF42 D0 0416 523 MOVL CREPID,SUBJPID :
 59 000001BE'EF43 D0 0421 524 10\$: GET PID ADDRESS OUT OF TABLE
 57 000002EB'EF45 7D 0420 525 MOVL COND1_E[R2],DEST_PIDADR : PRCNAM ADDR INTO REG FOR INDIRECT REF 'RNCE
 0435 526 MOVL COND2_E[R3],R9 : GET DAYTIM, REPTIM ARG ADDRESSES INTO REGS
 043D 527 MOVQ COND4_E[R5],R7 : ISSUE PRELIM CANWAK TO CLEAR THE DECKS
 044C 528 SCANWAK_S SUBJPID :
 047A 529 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
 047A 530 \$SETIMR_S DAYTIM=DELTA_10SEC. - : SET 'WATCHDOG' TIMER TO TRIP IF LONG WAIT
 047A 531 ASTADR=WATCH_AST :
 0491 532 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
 04BF 533 \$GETTIM_S ABS_3SEC : GET CURRENT TIME
 04CC 534 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
 0505 535 ADDL POS_3SEC,ABS_3SEC : ADD 3 SECONDS TO LOWER LONGWORD
 0510 536 ADWC POS_3SEC+4,ABS_3SEC : ADD POSSIBLE CARRY TO HIGHER LONGWORD
 0510 537 : ABS_3SEC IS NOW VALID IF USED IN \$SCHDWK
 0510 538 :
 0510 539 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
 0510 540 :
 0510 541 :
 00000000'8F 50 D1 0523 542 \$SCHDWK_S PIDADR=@DEST_PIDADR, PRCNAM=(R9), -
 61 13 052A 543 DAYTIM=(R7), REPTIM=(R8) :
 00000000'EF 00000000'8F D0 052C 544 CMPL R0,#\$\$\$_NORMAL : CODE RECEIVED = CODE EXPECTED ?
 00000000'EF 50 D0 0537 545 BEQL 15\$: YES -- CONTINUE
 053E 546 MOVL #\$\$\$_NORMAL,EXPV : NO -- LOAD UP EXPECTED AND
 0580 547 MOVL R0,RECV : ... RECEIVED VALUES, THEN EXIT
 058D 548 ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM SCHDWK>
 0000010C'EF D5 058D 550 TSTL DEST_PIDADR : PID RETURNED BY SCHDWK ?
 68 13 0593 551 BEQL 20\$: NO -- KEEP GOING
 0000010C'FF 0000011C'EF D1 0505 552 CMPL SUBJPID,@DEST_PIDADR : YES -- IS IT THE CORRECT ONE ?
 5B 13 05A0 553 BEQL 20\$: YES -- CONTINUE
 00000000'EF 0000011C'EF D0 05A2 554 MOVL SUBJPID,EXPV : NO -- LOAD UP EXPECTED AND
 00000000'EF 0000010C'FF D0 05AD 555 MUVL @DEST_PIDADR,RECV : ... RECEIVED VALUES, THEN EXIT
 0588 556 ERR_EXIT LONG,<INCORRECT PID RETURNED BY SCHDWK>
 05FD 557 20\$: \$CLREF_S EFN=#32 : CLEAR EVENT FLAG 32
 2E 50 E8 0606 558 BLBS - R0,25\$: KEEP GOING IF OK

0609 560 : SS_CHECK NORMAL : USE SS_CHECK MACRO TO TERMINATE TEST MOD
 0637 561 25\$: SSETMR_S EFN=#32, - : SET A 2-SECOND TIMER
 0637 562 DAYTIM=DELTA_2SEC
 0637 563 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
 0648 564 SWAITFR_S EFN=#32 : WAIT 2 SECONDS TO ALLOW PROPER SYNCH'N
 0676 565 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
 067F 566 CLR ZEROPID : CLEAR OUT ZERO PID SCHDWK MAY HAVE SET
 00000110'EF D4 06AD 567
 06B3 568 :
 06B3 569 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
 06B3 570 :
 06B3 571 : SCANWAK_S PIDADR=@DEST_PIDADR, PRCNAM=(R9) : CANCEL SCHEDULED WAKE OR REPEAT
 00000000'8F 50 D1 06C2 572 : CODE RECEIVED = CODE EXPECTED ?
 61 13 06C9 573 BEQLU 30\$: YES -- CONTINUE
 00000000'EF 00000000'8F D0 06CB 574 MOVL #SSS_NORMAL,EXPV : NO -- LOAD UP EXPECTED AND
 00000000'EF 50 D0 06D6 575 MOVL R0,RECV : ... RECEIVED VALUES, THEN EXIT
 06DD 576 072C 578 30\$: ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM CANWAK>
 0000010C'EF D5 072C 579 TSTL DEST_PIDADR : PID RETURNED BY CANWAK ?
 68 13 0732 580 BEQL 40\$: NO -- KEEP GOING
 0000010C'FF 0000011C'EF D1 0734 581 CMPL SUBJPID,@DEST_PIDADR : YES -- IS IT THE CORRECT ONE ?
 5B 13 073F 582 BEQL 40\$: YES -- CONTINUE
 00000000'EF 0000011C'EF D0 0741 583 MOVL SUBJPID,EXPV : NO -- LOAD UP EXPECTED AND
 00000000'EF 0000010C'FF D0 074C 584 MOVL @DEST_PIDADR,RECV : ... RECEIVED VALUES, THEN EXIT
 0757 585 079C 586 40\$: ERR_EXIT LONG,<INCORRECT PID RETURNED BY CANWAK>
 0000011C'EF 00000118'EF D1 079C 587 CMPL CREPID,SUBJPID : WAS A PROCESS CREATED ?
 03 13 07A7 588 BEQLU 50\$: YES -- GO WAIT FOR IT TO END
 014F 31 07A9 589 BRW 60\$: NO -- GO ISSUE HIBER
 07AC 590 50\$:
 07AC 591 \$ASCEFC_S EFN=#64, NAME=CLUSTER : ASSOC WITH CLUSTER FOR PROCESS SYNCHRO'N
 07C3 592 SS_CHECK NORMAL : CHECK FOR NORMAL STATUS
 07F1 593 \$SETEF_S EFN=#65 : LET CREATED PROC EXIT
 07FE 594 SS_CHECK WASCLR : BIT 65 SHOULD HAVE BEEN CLEAR
 082C 595 SWAITFR_S EFN=#64 : WAIT UNTIL CREATED PROC CAN HIBERNATE
 0839 596 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN
 0867 597 \$DACEFC_S EFN=#64 : DISASSOC CLUSTER
 0874 598 SS_CHECK NORMAL : CHECK FOR NORMAL STATUS
 08A2 599 \$QIOW_S CHAN=MBXCHAN, FUNC=#IOS READVBLK, -
 08A2 600 P1=MBXBUFF+8, P2=MBXBUFF : WAIT FOR CREATED PROCESS TO SEND MAIL
 08CB 601 08C8 602 SS_CHECK NORMAL : CHECK FOR NORMAL STATUS CODE
 35 11 08F9 603 BRB 70\$: ... AND GO SEE IF WE WERE STUCK IN HIBER
 08FB 604 60\$:
 08FB 605 \$HIBER_S : HIBERNATE TO SATISFY OUTSTANDING WAKE
 0902 606 SS_CHECK NORMAL : ... MAKE SURE IT FINISHED OK
 0930 607 70\$:
 0930 608 :
 0930 609 : CHECK TO SEE IF STUCK IN HIBER IF LONG WAIT
 0930 610 : IS SET AND DID NOT EXPECT LONG WAIT; ISSUE ERR_EXIT
 0930 611 : SAYING "STUCK IN HIBER".
 0930 612 :
 00000130'EF 95 0930 613 TSTB LONG_WAIT : DID WE WAIT A LONG TIME ?
 SC 13 0936 614 BEQL VERIFYX : NO -- THIS TEST CASE IS FINISHED
 55 D5 0938 615 TSTL RS : YES -- DID WE EXPECT TO REMAIN IN HIB'N ?
 58 13 093A 616 BEQL VERIFYX : YES -- THAT'S OK

SATSSS61
V04-000

SATS SYST SERV TESTS \$SCH/CANWAK (SUCC D 11
VERIFY 16-SEP-1984 00:59:38 VAX/VMS Macro V04-00
5-SEP-1984 04:32:50 [UETPSY.SRC]SATSSS61.MAR;1 Page 15
(1)

00000000'EF 94 093C 617 CLRB EXPV ; NO -- SOMETHING WENT WRONG ...: LOAD UP
00000000'EF 94 0942 618 CLRB RECV ; . EXPECTED & RECEIVED VALUES; THEN EXIT
0948 619 ERR_EXIT BYTE,<SUBJECT PROCESS WAS LEFT IN HIBERNATION>
0994 620 VERIFYX:
05 0994 621 RSB ; RETURN TO CALLER

SA
VO'

0995 623 .SBTTL VFY_CLEANUP
0995 624 :++
0995 625 : FUNCTIONAL DESCRIPTION:
0995 626 :
0995 627 : VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0995 628 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST
0995 629 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0995 630 : ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR EXIT
0995 631 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
0995 632 : IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING,
0995 633 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0995 634 : POSSIBLY DISCOVERING A SECOND ERROR.
0995 635 :
0995 636 : CALLING SEQUENCE:
0995 637 :
0995 638 : BSBW VFY_CLEANUP
0995 639 :
0995 640 : INPUT PARAMETERS:
0995 641 :
0995 642 : NONE
0995 643 :
0995 644 : IMPLICIT INPUTS:
0995 645 :
0995 646 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0995 647 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0995 648 : FOR X = 1,2,3,4,5 :
0995 649 : CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0995 650 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0995 651 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0995 652 : FOR CONDX_E.
0995 653 :
0995 654 : OUTPUT PARAMETERS:
0995 655 :
0995 656 : NONE
0995 657 :
0995 658 : IMPLICIT OUTPUTS:
0995 659 :
0995 660 : NONE
0995 661 :
0995 662 : COMPLETION CODES:
0995 663 :
0995 664 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0995 665 :

0000011C'EF 00000118'EF

OF

D1

12

09AD 679 CMPL CREPID, SUBJPID
09B8 680 BNEQU VFY_CLEANUPX
09BA 681 \$DELPRC_S SUBJPID

09C9 682 VFY_CLEANUPX:

05 09C9 683 RSB

0995 667 ; SIDE EFFECTS:
0995 668 ;
0995 669 ; SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
0995 670 ; (VIA RSB) IF ERROR ENCOUNTERED.

0995 671 ;--

0995 673 ;

0995 674 ;

0995 675 ;

0995 676 VFY_CLEANUP::

0995 677 SCANWAK_S SUBJPID

; CANCEL ANY POSSIBLE OUTSTANDING WAKES

09A4 678 SCANTIM_S

; CANCEL WATCHDOG TIMER

09B8 680 CMPL CREPID, SUBJPID

; WAS A PROCESS CREATED FOR THIS TEST CASE ?

09BA 681 \$DELPRC_S SUBJPID

; NO -- JUST EXIT

09C9 682 VFY_CLEANUPX:

; YES -- DELETE IT

05 09C9 683 RSB

; RETURN TO CALLER

09CA 685 .SBTTL WATCH_AST
09CA 686 :
09CA 687 : WATCH_AST SHOULD BE ENTERED ONLY WHEN THE CREATING OR CREATED
09CA 688 : PROCESS IS HIBERNATING. IT IS SCHEDULED WITH A 10-SECOND TIMER,
09CA 689 : WHICH IS CANCELED BEFORE DELIVERY IN ALL CASES EXCEPT WHEN THE
09CA 690 : SUBJECT PROCESS GOES INTO AN UNSATISFIED HIBERNATION. WHEN
09CA 691 : WATCH_AST IS ENTERED, IT SETS A FLAG INDICATING IT WAS ENTERED
09CA 692 : (LONG_WAIT) TO NON-ZERO, AND ISSUES A SWAKE FOR THE SUBJECT
09CA 693 : PROCESS; THIS SHOULD CLEAR THE HIBERNATION. BACK IN THE MAIN
09CA 694 : ROUTINE, A CHECK IS MADE TO SEE IF THE WATCH_AST WAS ENTERED
09CA 695 : AND WHETHER OR NOT SUCH ENTRY WAS EXPECTED. AN UNEXPECTED ENTRY
09CA 696 : TO WATCH_AST CAUSES AN ERR_EXIT.
09CA 697 :
09CA 698 WATCH_AST:
00000130'E 00000000'EF 0000 09CA 699 .WORD 0 : ENTRY MASK
09CC 700 MOVB ONES, LONG_WAIT : INDICATE THAT THE AST WAS ENTERED
09D7 701 SWAKE_S SUBJPID : WAKE THE (PRESUMABLY) HIBERNATING PROCESS
04 09E6 702 RET : ... AND GET OUT
09E7 703 .END

SSSS	= 00000952 R 04	CTL_SGL_PHD	***** X 04
SSSCHARS	= 00000027	DELTA_TOSEC	000000A8 R 02
SSSCHARS1	= 00000014	DELTA_1SEC	00000090 R 02
SSSCHARS2	= 00000014	DELTA_2SEC	00000098 R 02
SSSCHARS3	= 00000014	DELTA_3SEC	000000A0 R 02
SSSCHARS4	= 0000000C	DELTA_QSEC	000000B0 R 02
SSSCHARS5	= 00000000	DESC	= 00000010 G
SSSCOND_A	= 00000003	DEST_PIDADR	0000010C R 03
SSSSTRINGS	= 00000001	DIBSR_LENGTH	= 00000074
SSSSTRINGS2	= 00000005	DIBSW_UNIT	= 0000000C
SST1	= 00000001	EFLAG	***** X 04
SST2	= 00000004	EXPV	***** X 04
ABS_3SEC	00000120 R 03	FAO_DESC	***** X 04
ABS_PAST	00000128 R 03	FAO_LEN	***** X 04
BYTE	= 00000001 G	FORM_CONDS	00000294 RG 04
CFLAG	***** X 04	FORM_CONDSX	0000037D R 04
CHMRTN	***** X 04	IMAGRAM	00000065 R 02
CHM_CONT	***** X 04	IOS_READVBLK	***** X 04
CLUSTER	00000084 R 02	LONG	= 00000004 G
COMP_SC	***** X 04	LONG_WAIT	00000130 R 03
COND_T	00000245 RG 04	MBXBUFF	0000008C R 03
COND1_C	= 00000000	MBXCHAN	00000008 R 03
COND1_CLEANUP	00000246 RG 04	MBXCHANINFO	0000000C R 03
COND1_E	0000017C R 03	MBXUNIT	00000088 R 03
COND1_H	0000013D RG 03	MOD_MSG_CODE	***** X 04
COND1_T	00000131 R 03	MOD_MSG_PRINT	***** X 04
COND1_TAB	0000013E R 03	MSGT_INP_CTL	00000019 R 02
COND2	00000247 PG 04	MSG3_ERR_CTL	00000039 RG 02
COND2_C	= 00000000	MSG_A	***** X 04
COND2_CLEANUP	00000248 RG 04	MSG_B	***** X 04
COND2_E	000001BE R 03	MSG_CTXT	***** X 04
COND2_H	0000019D RG 03	NOTARG	= 00000000 G
COND2_T	00000188 R 03	NULL	= 00000014 G
COND2_TAB	0000019E R 03	ONES	***** X 03
COND3	00000249 RG 04	ONE_SEC	= 00989680
COND3_X	0000028E R 04	OUTPUT_MSG	***** X 04
COND3_C	= 00000000	PCBSL_0IC	= 000000BC
COND3_CLEANUP	0000028F RG 04	PCV	***** X 04
COND3_E	0000025B R 03	PHDSQ_PRIVMSK	= 00000000
COND3_H	000001D3 RG 03	POS_3SEC	000000B8 R 02
COND3_T	000001C6 R 03	PRIVMASK	00000000 R 03
COND3_TAB	000001D4 R 03	PRIV_ARGS	= 00000002
COND4	00000290 RG 04	PROCESS_ERR	***** X 04
COND4_C	= 00000000	QUAD	= 00000008 G
COND4_CLEANUP	00000291 RG 04	RECV	***** X 04
COND4_E	000002EB R 03	REST_REGS	***** X 04
COND4_H	0000028E RG 03	SAVE_REGS	***** X 04
COND4_T	0000026F R 03	SCHSGL_CURPCB	***** X 04
COND4_TAB	0000028F R 03	SELFPID	00000114 R 03
COND5	00000292 RG 04	SSS_NORMAL	***** X 04
COND5_C	= 00000014	SSS_WASCLR	***** X 04
COND5_CLEANUP	00000293 RG 04	SUBJPID	0000011C R 03
COND5_H	0000030B RG 03	SUBJPRN	00000051 R 02
COND5_T	0000030B R 03	SUCCESS	***** X 04
COND5_TAB	0000030B R 03	SYSSASCEFC	***** GX 04
CONFLICT	***** X 04	SYSSBINTIM	***** GX 04
CREPID	00000118 R 03	SYSSCANTIM	***** GX 04

SYSSCANWAK	*****	GX	04
SYSSCLREF	*****	GX	04
SYSSCMKRL	*****	GX	04
SYSSCREMBX	*****	GX	04
SYSSCREPRC	*****	GX	04
SYSSDACEFC	*****	GX	04
SYSSDELMBX	*****	GX	04
SYSSDELPVC	*****	GX	04
SYSSFAO	*****	X	04
SYSSGETCHN	*****	GX	04
SYSSGETTIM	*****	GX	04
SYSSHIBER	*****	GX	04
SYSSQIOW	*****	GX	04
SYSSSCHDWK	*****	GX	04
SYSSSETEF	*****	GX	04
SYSSSETIMR	*****	GX	04
SYSSSETPRN	*****	GX	04
SYSSSETPRV	*****	GX	04
SYSSWAITFR	*****	GX	04
SYSSWAKE	*****	GX	04
TESTNUM	*****	X	04
TEST_MOD_NAME	00000000	RG	02
TEST_MOD_NAME_D	00000009	R	02
TEST_MOD_SUCC	*****	X	04
TIME_PAST	00000000	R	02
TMD_ADDR	*****	X	04
TM_CLEANUP	0_00233	RG	04
TM_SETUP	00000000	RG	04
VERIFY	0000037E	RG	04
VERIFYX	00000994	R	04
VFY_CLEANUP	00000995	RG	04
VFY_CLEANUPX	000009C9	R	04
WATCH_AST	000009CA	R	04
WORD	= 00000002	G	
WRITE_MSG2	*****	X	04
ZEROPID	00000110	R	03

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS .	00000000	(0.) 00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000	(0.) 01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	000000E0	(224.) 02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000030C	(780.) 03 (3.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS61	000009E7	(2535.) 04 (4.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.36
Command processing	113	00:00:00.63	00:00:02.52

SATSSS61
VAX-11 Macro Run Statistics

J 11
SATS SYST SERV TESTS \$SCH/CANWAK (SUCC 16-SEP-1984 00:59:38 VAX/VMS Macro V04-00
5-SEP-1984 04:32:50 [UETPSY.SRC]SATSSS61.MAR;1

Pass 1	329	00:00:10.90	00:00:18.26
Symbol table sort	0	00:00:00.88	00:00:00.96
Pass 2	160	00:00:02.72	00:00:42.82
Symbol table output	18	00:00:00.12	00:00:00.14
Psect synopsis output	2	00:00:00.02	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	653	00:00:15.35	00:01:05.09

The working set limit was 1500 pages.

58672 bytes (115 pages) of virtual memory were used to buffer the intermediate code.

There were 30 pages of symbol table space allocated to hold 512 non-local and 76 local symbols.

703 source lines were read in Pass 1, producing 29 object records in Pass 2.

56 pages of virtual memory were used to define 46 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name

\$255\$DUA28:[SHRLIB]UETP.MLB;1
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

Macros defined

8
2
35
43

943 GETS were required to define 43 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:SATSSS61/OBJ=OBJ\$S:SATSSS61 MSRC\$S:SATSSS61/UPDATE=(ENH\$S:SATSSS61)+EXECMLS/LIB+SHRLIB\$S:UETP/LIB

0424 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

SAT5554
LIS

SAT5556
LIS

SAT5560
LIS

SAT5571
LIS

SAT5573
LIS

SAT5570
LIS

SAT5572
LIS

SAT5553
LIS

SAT5555
LIS

SAT5561
LIS